

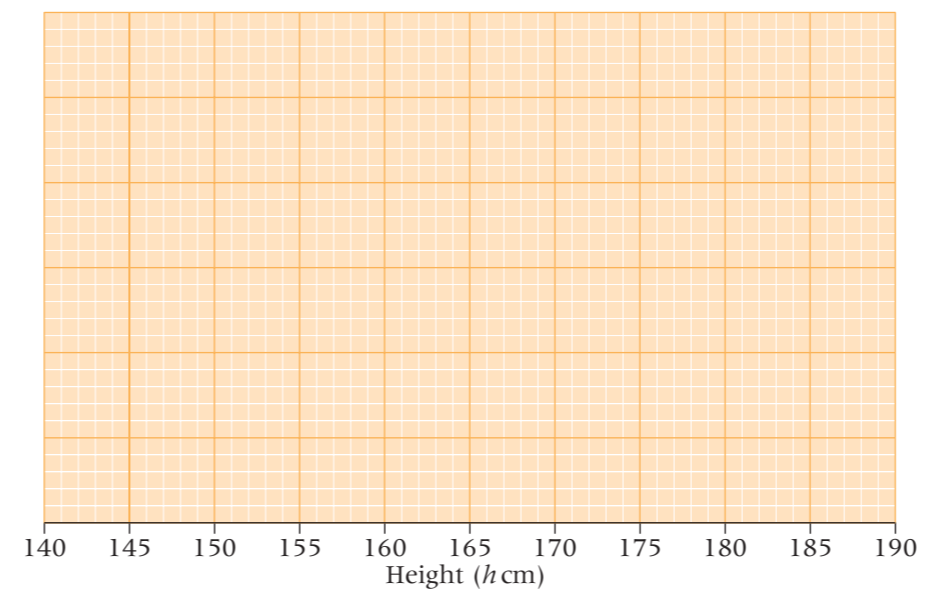
D4

Data exam review

- 1 The table gives information about the heights, in centimetres, of some 15 year old students.

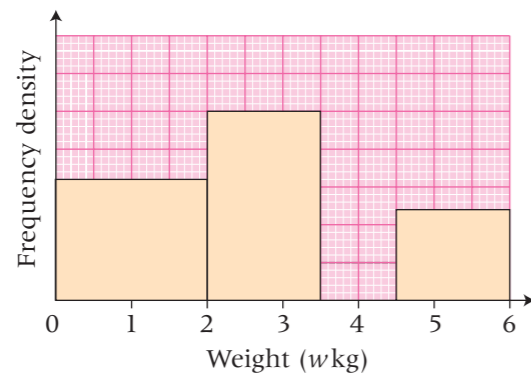
Height (h cm)	$145 < h \leq 155$	$155 < h \leq 175$	$175 < h \leq 190$
Frequency	10	80	24

Use the table to draw a histogram.



(Total 3 marks)

2 The unfinished table and histogram show information about the weights, in kg, of some babies.



Weight (w kg)	Frequency
$0 < w \leq 2$	
$2 < w \leq 3.5$	150
$3.5 < w \leq 4.5$	136
$4.5 < w \leq 6$	

a Use the histogram to complete the table.

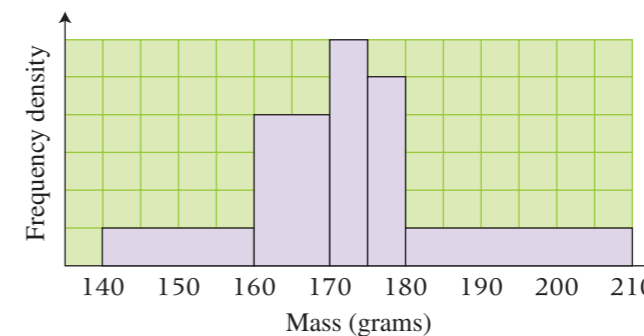
(2)

b Use the table to complete the histogram.

(1)

(Total 3 marks)

3 The histogram gives information about the masses of some stones.



The number of stones in the 170g – 175 g class is 24 more than the number of stones in the 140 g – 160 g class.

Calculate the total number of stones.

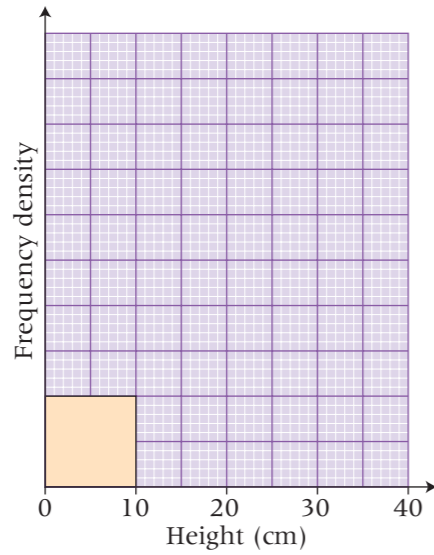
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(Total 3 marks)

4 In an experiment, 52 plants were grown and their heights were measured. The results are summarised in the table.

Height	$0 \leq h < 10$	$10 \leq h < 15$	$15 \leq h < 20$	$20 \leq h < 40$
Number of plants	10	20	14	8

a Complete the histogram for these results.



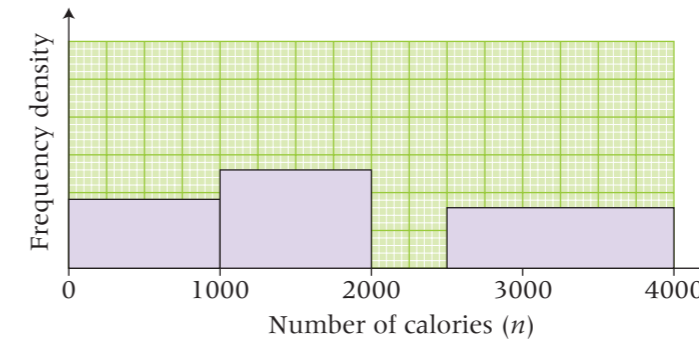
The plants with heights from 17.5 cm to 25 cm are chosen for a display.

b Calculate an estimate of the number of plants chosen for the display.

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(2)
(Total 6 marks)

5 The unfinished table and histogram show information from a survey of women about the number of calories in the food they eat in one day.

Number of calories (n)	Frequency
$0 < n \leq 1000$	90
$1000 < n \leq 2000$	
$2000 < n \leq 2500$	140
$2500 < n \leq 4000$	



a i Use the information in the table to complete the histogram.

ii Use the information in the histogram to complete the table.

(3)

b Find an estimate for the upper quartile of the number of calories.
You must make your method clear.

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(2)

(Total 5 marks)